

AMENDMENT TO THE CLAIMS

1 to 38. (Canceled)

39. (New) An image forming apparatus for forming an image in accordance with control codes, said image forming apparatus comprising:

a printing unit for printing an image;

a memory for storing control codes to control said image forming apparatus having said printing unit;

display means for displaying messages associated with an image forming operation;

receiving means for receiving, from an external apparatus, rewrite execution codes, which are adapted to execute rewriting of the control codes in said memory, in accordance with transfer control codes which are adapted to control transfer of the rewrite execution codes from the external apparatus, and receiving, from the external apparatus, new control codes; and

rewriting means for rewriting the control codes, which have been stored in said memory, with the new control codes received by said receiving means, in accordance with the rewrite execution codes received by said receiving means,

wherein said display means displays a message informing a user of the fact that the image forming apparatus is under download of data, instead of displaying copying settings, during execution of the rewrite execution codes.

40. (New) The image forming apparatus according to Claim 39, wherein the rewrite execution codes are transferred to a nonvolatile memory medium as said memory and stored therein.

41. (New) The image forming apparatus according to Claim 39, wherein the rewrite execution codes include address information of said memory for executing rewriting of the control codes, and said rewriting means executes the rewriting of the control codes, which have been stored in said memory, in accordance with the address information.

42. (New) The image forming apparatus according to claim 39, further comprising:

image forming control means for controlling an image forming process in accordance with the control codes; and

switching means for exclusively changing over whether the image forming process is executed by said image forming control means or whether rewriting of the control codes is executed by said rewriting means.

43. (New) The image forming apparatus according to claim 42, wherein said switching means exclusively changes over using a predetermined switch whether the image forming process is executed by said image forming control means or whether the rewriting of the control codes is executed by said rewriting means.

44. (New) The image forming apparatus according to claim 42, wherein said switching means exclusively changes over in accordance with a predetermined command from said external apparatus whether the image forming process is executed by said image forming control means or whether the rewriting of the control codes is executed by said rewriting means.

45. (New) An image forming apparatus for forming an image in accordance with control codes, said image forming apparatus comprising:

a printing unit for printing an image;

a code memory for storing control codes which are adapted to control the image forming apparatus having said printing unit;

a processor for controlling the image forming apparatus in accordance with the control codes stored in said code memory,

wherein said processor controls transfer of the rewrite execution codes, which are adapted to execute rewriting of the control codes from an external apparatus, said processor controls transfer of new control codes from the external apparatus, and said processor controls the rewriting of the control codes, which have been stored in said code memory, with the new control codes transferred from the external apparatus in accordance with the rewrite execution codes transferred from the external apparatus; and

an informing unit for informing a user of the fact that the image forming apparatus is under download of data, instead of displaying copying settings, during execution of the rewrite execution codes.

46. (New) The image forming apparatus according to Claim 45, wherein said processor controls transfer of the rewrite execution codes in accordance with transfer control codes which are adapted to control transfer of the rewrite execution codes from the external apparatus.

47. (New) The image forming apparatus according to Claim 45, wherein said code memory is a rewritable memory.

48. (New) The image forming apparatus according to Claim 45, wherein the image forming apparatus is a copying machine or a printer.

49. (New) The image forming apparatus according to Claim 45, wherein the rewrite execution codes include address information of said code memory and said processor controls rewriting of the control codes with the new control codes transferred from the external apparatus in accordance with the address information.

50. (New) The image forming apparatus according to Claim 45, wherein said processor exclusively changes over control of an image forming process and rewriting the control codes.

51. (New) An image forming apparatus for forming an image in accordance with control codes, said image forming apparatus comprising:

a printing unit for printing an image;  
a plurality of code memories for storing control codes which are adapted to control the image forming apparatus having said printing unit; and  
a processor for controlling the image forming apparatus in accordance with the control codes stored in at least one of said plurality of code memories,  
wherein, after a power supply is turned on, said processor determines whether rewriting of the control codes has suspended or failed, said processor determines which one of said plurality of code memories was being rewritten if the rewriting of the control codes has suspended or failed, said processor controls transfer of new control codes from an external apparatus, and said processor controls rewriting of the control codes, which have been stored in the determined one of said plurality of code memories, with the new control codes transferred from the external apparatus in accordance with rewrite execution codes which are adapted to execute rewriting of the control codes and are transferred from the external apparatus.

52. (New) A rewrite control method for rewriting control codes, which have been stored in a memory and are adapted to control an image forming apparatus having a printing unit to form an image, said rewrite control method comprising:  
a displaying step of displaying messages associated with an image forming operation;  
a receiving step of receiving, from an external apparatus, rewrite execution codes, which are adapted to execute rewriting of the control codes in the memory, in

accordance with transfer control codes which are adapted to control transfer of the rewrite execution codes from the external apparatus, and receiving, from the external apparatus, new control codes; and

a rewriting step of rewriting the control codes, which have been stored in the memory, with the new control codes received in said receiving step, in accordance with the rewrite execution codes received in said receiving step,

wherein a message informing a user of the fact that the image forming apparatus is under download of data, instead of displaying copying settings, is displayed during execution of the rewrite execution codes.

53. (New) A rewrite control method for rewriting control codes, which have been stored in a code memory and are adapted to control an image forming apparatus having a printing unit to form an image, said rewrite control method comprising:

a first control step of controlling transfer of rewrite execution codes, which are adapted to execute rewriting of control codes, from an external apparatus;

a second control step of controlling transfer of new control codes from the external apparatus;

a third control step of controlling the rewriting of the control codes, which have been stored in a code memory, with the new control codes transferred from the external apparatus in accordance with the rewrite execution codes transferred from the external apparatus; and

an informing step of informing a user of the fact that the image forming apparatus is under download of data, instead of displaying copying settings, during execution of the rewrite execution codes.

54. (New) A rewrite control method for rewriting control codes, which have been stored in a plurality of code memories and are adapted to control an image forming apparatus having a printing unit to form an image, said rewrite control method comprising:

- a first control step of controlling the image forming apparatus in accordance with control codes stored in at least one of a plurality of code memories;
- a first determining step of determining whether rewriting of the control codes has suspended or failed after a power supply is turned on;
- a second determining step of determining which one of the plurality of code memories was being rewritten if rewriting of the control codes has suspended or failed;
- a second control step of controlling transfer of new control codes from an external apparatus; and
- a third control step of controlling rewriting of the control codes, which have been stored in the determined one of the plurality of code memories, with the new control codes transferred from the external apparatus in accordance with rewrite execution codes which are adapted to execute rewriting of the control codes and are transferred from the external apparatus.